

PHOTO APPENDIX

THE PHOTOS THAT FOLLOW WERE TAKEN AT THE SANDHILLS AGRICULTURAL LABORATORY BETWEEN 1978 AND 1984.

THE LABORATORY BUILDING AND THE SITE OF THE PLOTS ARE STILL VISIBLE ON GOOGLE MAPS:

<https://www.google.com/maps/place/Cemetery+Rd,+Hall,+NE+69167/@41.627224,-100.8407819,327m/data=!3m1!1e3!4m5!3m4!1s0x8777c43f39dad1f9:0x8cafef49f0d83d2!8m2!3d41.6143034!4d-100.8571047>

Latitude: 41.6143034 Longitude: -100.8571047

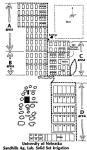
Note: These photos were not part of the original report, but have been added to this file for historical completeness. Many of the photos illustration material described in this report.



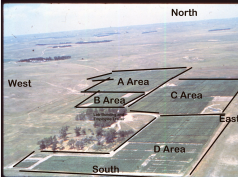
July 25, 1979 - The Sandhills Agricultural Lab, near North Platte. Photo taken by Bronson
This is where Bronson worked on his Masters and Ph.D. The work area, office and female employee trailer were located in the clump of trees in the right center of the photo.



July 25, 1978 - The Sandhills Agricultural Lab, near North Platte. Photo taken by Bronson
This is where Bronson worked on his Masters and Ph.D. The work area, office and female employee trailer were located in the clump of trees in the lower center of the photo. The male housing was in the trees in the upper left of the photo.



Field Irrigation area of the Sandhills Agricultural Laboratory showing plot locations.



July 25, 1970 - The Sandhills Agricultural Lab, near North Platte. Photo taken by Bronson. This is where Bronson worked on his Masters and Ph.D. The work area, office and female employee trailer were located in the clump of trees in the lower center of the photo. The male housing was in the trees in the upper left of the photo.



1983 - Looking East
D area (distance), D area (foreground)
A area (to the left), D area (behind the trees)



















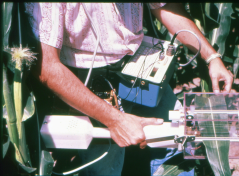








1978 August 22: Bronson's ladder, with the infrared thermometer on top.









1978 August 8. "D" area. Gleason's research plots.
Note the gradient in height, caused by water stress.











July 18, 1978. Rob and John using the pressure bomb on corn.
Sandhills Agricultural Lab, Univ. of Nebraska, near North Platte.





June 13, 1978. Looking east from O area
Bronson's crops.
Sandhills Agricultural Lab, near North Platte, Nebraska



June 13, 1978. Looking north from the south part of D area.
Bronson's Research ladder is visible in the center of the photo.
Sandhill's Agricultural Lab, near North Platte, Nebraska

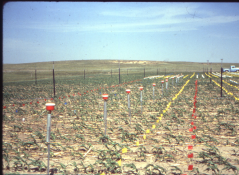


June 13, 1978. Looking north. The trees to the west of
the southern part of D area.
Sandhills Agricultural Lab, near North Platte, Nebraska



June 13, 1978. Looking north. The road separating D area (on the right) and C area (straight ahead) is visible just behind the tractor. Sandhills Agricultural Lab., near North Platte, Nebraska





1970 June 13, Plot 22, looking east
Sandhills Agricultural Lab, near North Platte, Nebraska



1978 June 13 Plot 22, looking east
Sandhills Agricultural Lab, near North Platte, Nebraska



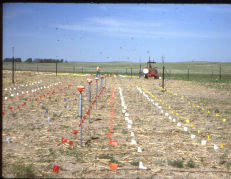
1978 June 13 (Plot 2A), looking south - Sorghum
Sandhills Agricultural Lab, near North Platte, Nebraska



1978-June 3. Breese's Research Ladder
Sandhills Agricultural Lab, near North Platte, Nebraska











1979 - Bronson taking infrared thermometer readings at the Sandhills Agricultural Lab, near North Platte (Univ. of Nebraska)

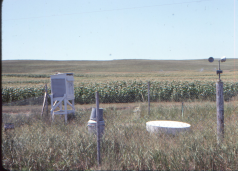


1979 - Branson taking infrared thermometer readings at the Sandhills Agricultural Lab, near North Platte [Univ of Nebraska]





1978 August 8. The weather station, looking south. The area with the trees is where our office building and employee trailer was located.



1979 August 6. The weather station, looking east.





1978 August 5. The irrigation pump, looking south. The trees in the distance are where our office and employee trailer was located.







1978 August 8. The "A" area windmill, looking west.





1979 August 8. Brownson making thermal measurements
"D" area. Sandhills Agricultural Laboratory, near North Platte.





June 1981 - Preparing the instruments



Polycomers used for electronically recording data

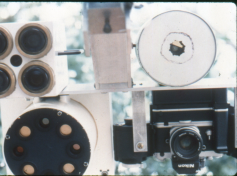


June 1991 - Branson at the Sand Hills Agricultural Lab



June 1981 - Elaine Blad - Brownson's Ph.D. advisor, Univ. of Nebraska

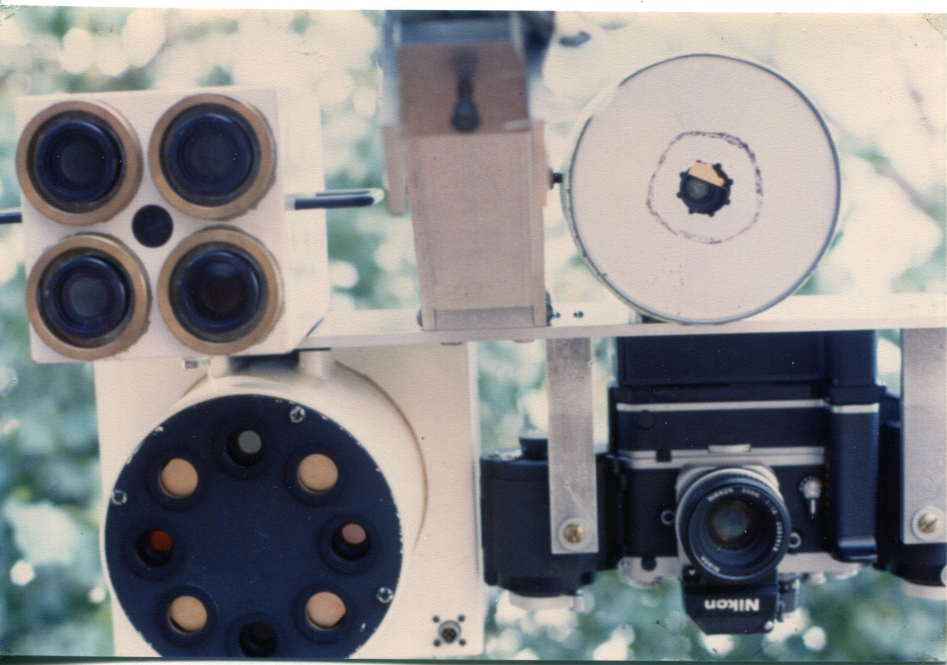
Bronson's Satellite Simulation equipment:
4 channel, 8 channel, infrared thermometer, 35 mm Nikon camera



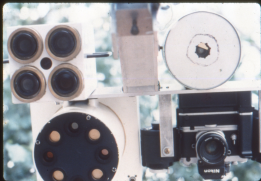








Bronson's Satellite Simulation equipment
4-channel, 8 channel, infrared thermometer, 35 mm Nikon camera





Adjusting the instruments





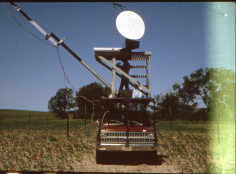
1983. Branson Gardner, (bold on top) preparing for calibration
Sandhill Agricultural Laboratory, near North Platte, Nebraska



1981 - June Bronson operating the instrument boom.



1981 - June Bronson operating the instrument boom.



1981 Branson taking research data
Sandhill Agricultural Laboratory, near North Platte, Nebraska





Bronson's Ph.D. research project. Blaine Blad on top of the truck.
Bronson is driving.



August 1981 - Bronson's research truck. Blaine Blad on top, using an infrared thermometer. Bronson, driving the truck and controlling the data recorder.





August 1981 - Campbell Weather Station - "D" Area
Sandhills Agricultural Lab, near Tryon Nebraska



August 1982. Field Lab building is on the right. Temporary work trailer on the left. Sandhills Ag Lab, near North Platte.



August 1982. Field Lab building is on the right. Temporary work trailer on the left. Sandhills Ag Lab, near North Platte.





June 10, Mike -- a high school math teacher
The Sandhills Laboratory building is in the background.





June 15, 1988 Taking spectral measurements - Elaine Hild is on top, making adjustments
Sandhills Agricultural Lab - Bronson's "D" area. - Cindy Hays is driving



June 13, 1988 Howard Bryant - Taking measurements
Sandhills Agricultural Lab - Bronson's "D" area.



June 1981 - Benson at the controls of the boom on the truck.



June 10, 1980 Bronson is starting to put instruments on the boom truck.
The Sandhills Laboratory building is in the background.





A, B, and C areas as seen, looking east. The tractor shed is in the left, middle of the photo.
Sandhills Agricultural Laboratory



Sept. 1943. Taking measurements, Ramona Rice operating the boom.
Sandhills Agricultural Laboratory, near North Platte.



1985. The Lab building, and Cindy Hay's dog, Ruaner. The employee trailer is to the right. Sonchitta Agricultural Laboratory, near South Platte.



1950. The Lab building, and Cindy May's dog, Rosen Sandhills Agricultural Laboratory, near North Platte.



August 1982. Taking readings in "D" area.
Sandhills Agricultural Laboratory, near North Platte.
Blaine West on top, using the infrared thermometer

1952. Banana Riser, with the research instruments. Employee Trailer in the background
Savannah Agricultural Laboratory, near North Platte.





1983. 1983. Ramona Ray, seated; Walter Reed (on far right); the Lab Building and the Employee/Trainee
Sandhills Agricultural Laboratory, near North Platte.



1982. Looking west from "D" area.
Sandhills Agricultural Laboratory, near North Platte.



1982. Looking south from "EP" area.
Sandhills Agricultural Laboratory, near North Platte.



1962. The work trailer, in the south of the Lab Building
(Savannah Agricultural Laboratory, near North Platte).







August 1982. Taking readings in "D" area.
Sandhills Agricultural Laboratory, near North Platte.
Blaine Blad on top, using the infrared thermometer



1983 - August, Brownson's remnants fence track. Looking from the west side of "D" area to the east, Sandhills Agricultural Laboratory, near North Platte.



1962, August 8. Oil pumpjack and storage tanks
Barnhill Agricultural Laboratory, near North Platte.



1983. Looking south from the Lab building. One of the research trailers is on the right. Sandhills Agricultural Laboratory, near North Platte.



1982, Kirk Cloninger - Pressure Blade Holdings
Sandhills Agricultural Laboratory, near North Platte.



1942 "D" area, looking south
Southern Agricultural Laboratory, near North Platte.



1963. Looking east at "00" area.
Gusathia Agricultural Laboratory, near North Platte.



1952. Looking east at "B" area, from the Life building
Bartholin Agricultural Laboratory, near North Platte.



4963. Looking north-east at '50' area,
Barabati Agricultural Laboratory, near Harb (Hatta).



August 8, 1962. Blaine Blad - calibration the instruments using the barium sulfate calibration plate.
Sandhill's Agricultural Station, near North Platte



August 8, 1982. Elaine Blad - removing the lid from the barium sulfate calibration plate.
Sandhills Agricultural Station, near North Platte









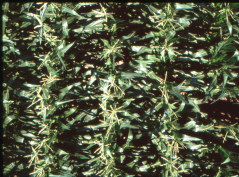


1982, August 8. "D" area "bogleg" (the southern most part of "D" area.)
Bendville Agricultural Laboratory, near Martin Place.



1952, August 8. Looking north at "60" area,
Bartlett Agricultural Laboratory, near North Florida.







July 28, 1962 Branson's Research Track.

Sandhills Agricultural Laboratory University of Nebraska, near North Platte

Satellite simulation: 8 channel, 4 channel, infrared thermometer, 35 mm camera



July 28, 1982 Craig Galy (left) and Kirk Clawson



July 28, 1962 Cindy Hays (left), Romano Raso, Elaine Glad
Sardinella Agricultural Station, near North Platte



July 25, 1982 Cindy Hays (left) and Ramona Rob
Sandhills Agricultural Station, near North Platte

July 28, 1962 Breason, installing the sensor equipment





July 28, 1982 Steino Sted (left) and Ramona Rao - making adjustments



July 28, 1982 Bronson's Research Track,
Sandhills Agricultural Laboratory University of Nebraska, near North Platte









A photograph of a middle-aged man with a receding hairline, smiling and holding a large, rectangular, light-brown cardboard sign in front of his chest. The sign has handwritten text in black ink. The man is wearing a white short-sleeved shirt and dark trousers. He is standing outdoors, with a light blue wooden fence or railing visible behind him to the left, and a dark, textured ground surface to the right. The background also shows some green foliage.

July 28, 1982
General
Photos





July 1982 Kirk Claussen (left) and Ramana Rao
Adjusting the instruments to the boom track.



July 1982 Kirk Clawson taking leaf measurements
Blain Blad (blue hat) and Mike, the math teacher
Sandhills Agricultural Lab, near North Platte



July 14, 1982. Mark Clawson loading. Bud Brad on right. Other unknown.



July 14, 1992 Kirk Clawson taking leaf measurements.



July 24, 1982 Elaine Blad, Sandhills Agricultural Laboratory
University of Nebraska, near North Platte









July 16, 1982. Blaine Island Littering





July 14, 1992 Blaine Gled taking leaf measurements.



1982: The "three wheeler" and the employee trailer
Sandhills Agricultural Laboratory, near North Platte.



1982. The Research Triad, "C" area, looking southwest.
"Leaf Area Index" measurements were made here.
Sandhills Agricultural Laboratory, near North Platte.



July 1982 Technicians cleaning pipes used for neutron probe readings, Sandhills Agricultural Laboratory. The Lab Field Office is in the background.



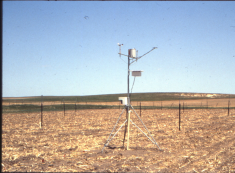
June 1982, "0" area, looking north - late afternoon
Sandhill Agricultural Laboratory, near North Platte



1982, Ed Schwartz, cleaning the class, in front of the Lab building
Bartlett Agricultural Laboratory, near North Platte.



May 28, 1983 - Campbell Weather Station
The tractor shed is in the background
Kearville Agricultural Laboratory, near North Platte



May 28, 1963 Campbell Weather Station, looking east from $\frac{1}{4}$ area.
Barnette Agricultural Laboratory, near North Platte



Wayne Gardner at the Univ of Nebraska's Sandhills Ag Lab, near North Platte. He worked during the summer of 1983, assisting his brother, Bronson with his Ph.D. project. These are two of his co-workers.



Wayne Gardner's co-workers at the University of Nebraska's Sandhills Ag. Lab. Wayne worked there the summer of 1983, assisting his brother, Bronson with his Ph.D. project.



1983 Wayne Gardner and Craig Daly
Sandhill Agricultural Laboratory, near North Platte, Nebraska



1966 Wayne Gardner
Sandhill Agricultural Laboratory, near North Platte, Nebraska



Wayne Gardner at the University of Nebraska's Sandhills Ag. Lab. He worked there the summer of 1983 assisting his brother, Bronson with his Ph.D. research project.



1983 Wayne Sundner and Craig Bely
Sandhill Agricultural Laboratory, near North Platte, Nebraska



1953 Wayne Gardner
Sandhill Agricultural Laboratory, near North Platte, Nebraska



Wayne Gardner at the Univ of Nebraska's Sandhills Ag Lab, near North Platte. He worked during the summer of 1983, assisting his brother, Bronson with his Ph.D. project.



1983 Wayne Gardner (with Craig Delp's arms)
Sandhill Agricultural Laboratory, near North Platte, Nebraska



Wayne Gardner at the Univ of Nebraska's Sandhills Ag Lab, near North Platte. He worked during the summer of 1983, assisting his brother, Bronson with his Ph.D. project.



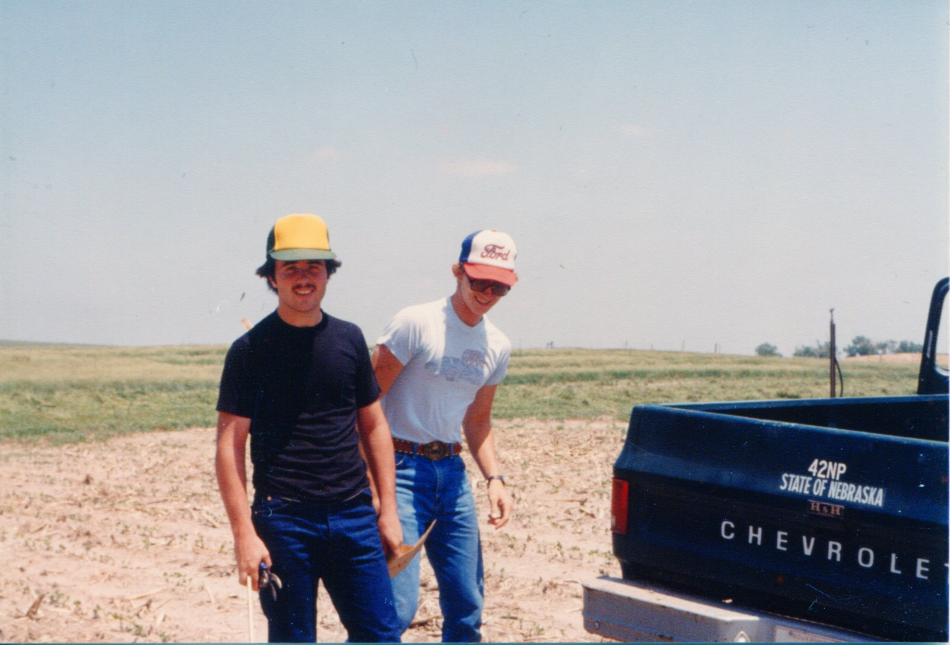
1953 Wayne Gardner
Sandhill Agricultural Laboratory, near North Platte, Nebraska



1983 Ed Schwartz, Craig Dely, Wayne Gardner
Sandhill Agricultural Laboratory, near North Platte, Nebraska



Wayne Gardner at the Univ of Nebraska's Sandhills Ag Lab, near North Platte. He worked during the summer of 1983, assisting his brother, Bronson with his Ph.D. project.



Wayne Gardner at the Univ of Nebraska's Sandhills Ag Lab, near North Platte.
He worked during the summer of 1983, assisting his brother, Bronson with his Ph.D. project.



1600 Wayne Gardner, Craig Daly
Sandhill Agricultural Laboratory, near North Platte, Nebraska



Wayne Gardner at the University of Nebraska's Sandhills Ag. Lab. He worked there the summer of 1983 assisting his brother, Bronson with his Ph.D. research project.



Wayne Gardner at the Univ of Nebraska's Sandhills Ag Lab, near North Platte. He worked during the summer of 1983, assisting his brother, Bronson with his Ph.D. project.



CHRISTINE E GARDNER
102 BIRCH ST
VACAVILLE CA 95688

448-5987



Wayne Gardner at the University of Nebraska's Sandhills Ag. Lab. He worked there the summer of 1983, assisting his brother, Bronson with his Ph.D. project.





1983 September Wayne Gardner and Betty Miller, recording instrument readings.
Sandhill Agricultural Laboratory, near North Platte, Nebraska



1953 September Wayne Gardner and Betty Walter, recording instrument readings, Sandhill Agricultural Laboratory, near North Platte, Nebraska



1968 September Wayne Gardner and Betty Walter, recording instrument readings, Sandhill Agricultural Laboratory, near North Platte, Nebraska



1983 September Wayne Gardner and Betty Waller, recording instrument readings.
Sandhill Agricultural Laboratory, near North Platte, Nebraska



1969 September Wayne Gardner and Barty Walter, recording instrument readings, Sandhill Agricultural Laboratory, near North Platte, Nebraska



1953 September Wayne Gardner and Betty Moller, recording instrument readings.
Sandhill Agricultural Laboratory, near North Platte, Nebraska



1983 September Wayne Gardiner and Betty Walker, recording instrument readings.
Sandhill Agricultural Laboratory, near North Platte, Nebraska



1983. One of our research trailers. This area south of the lab building used to be "C" area, Sandhills Agricultural Laboratory, near North Platte.



1983. "OT" area, looking east.
Gusche's Agricultural Laboratory, near North Platte.



108A 107 area, looking east. Note the weather station,
Sandhills Agricultural Laboratory, near North Platte.



1983. Branson Gardner, (bold on top) preparing for calibration
Sandhill Agricultural Laboratory, near North Platte, Nebraska



One of Bronson's Ph.D. research photos. Taken from the truck camera.
(very young corn)



One of Bronson's Ph.D. research photos. Taken from the truck camera.
(very young corn)



One of Bronson's Ph.D. research photos. Taken from the truck camera.
(very young corn)



Bronson's Ph.D. research project. Blaine Blad on top of the truck.
Bronson is driving.



July 11-13, Melvin Keener (Benson's new boss at SOHIO) taking infrared thermometer readings at the Sandhills Agricultural Lab near North Platte, Nebraska for a research project initiated by Benson for SOHIO (eventually, SOHIO became part of British Petroleum)



July 11-13, Branson, getting ready to take lakeinfrared thermometer readings at the Sandhills Agricultural Lab near North Platte, Nebraska for a research project initiated by Branson for SOHHO (eventually, SOHHO became part of British Petroleum)



1984 - Thunderbolt Farm - Tornado damage to center pivot.

July - O'Neill Nebraska



July 1984 - Brownson at the Sandhills Ag Lab, measuring leaf water potential, for a research project initiated by his new employer, SOHIO (eventually, British Petroleum).



July 1984 - Brownson at the Sandhills Ag Lab, measuring leaf water potential, for a research project initiated by his new employer, SDI&O (eventually, British Petroleum).



July 1984 - Brownson at the Sandhills Ag Lab, measuring leaf water potential, for a research project initiated by his new employer, SOHIO (eventually, British Petroleum).



July 1984 - Bronson at the Sandhills Ag Lab, measuring leaf water potential, for a research project initiated by his new employer, SCHRO (eventually, British Petroleum).



July 1984 - Bronson at the Sandhills Ag Lab, measuring leaf water potential, for a research project initiated by his new employer, SOHIO (eventually, British Petroleum).



July 1984 - Brown at the Sandhills Ag Lab, measuring leaf water potential, for a research project initiated by his new employer, SDHB (eventually, British Petroleum).







July 1984 - Brownson at the Sandhills Ag Lab, measuring leaf water potential, for a research project initiated by his new employer, SDH&O (eventually, British Petroleum).



July 1994 - Brownson at the Sandhills Ag Lab, measuring leaf water potential, for a research project initiated by his new employer, SOHIO (eventually, British Petroleum).



July 1984 - Branson at the Sandhills Ag Lab, measuring leaf water potential, for a research project initiated by his new employer, SOHIO (eventually, British Petroleum).









1980 - Bronze analyzing the multi-spectral images that were taken on July 10, 1980 over the Sandhills Agricultural Laboratory



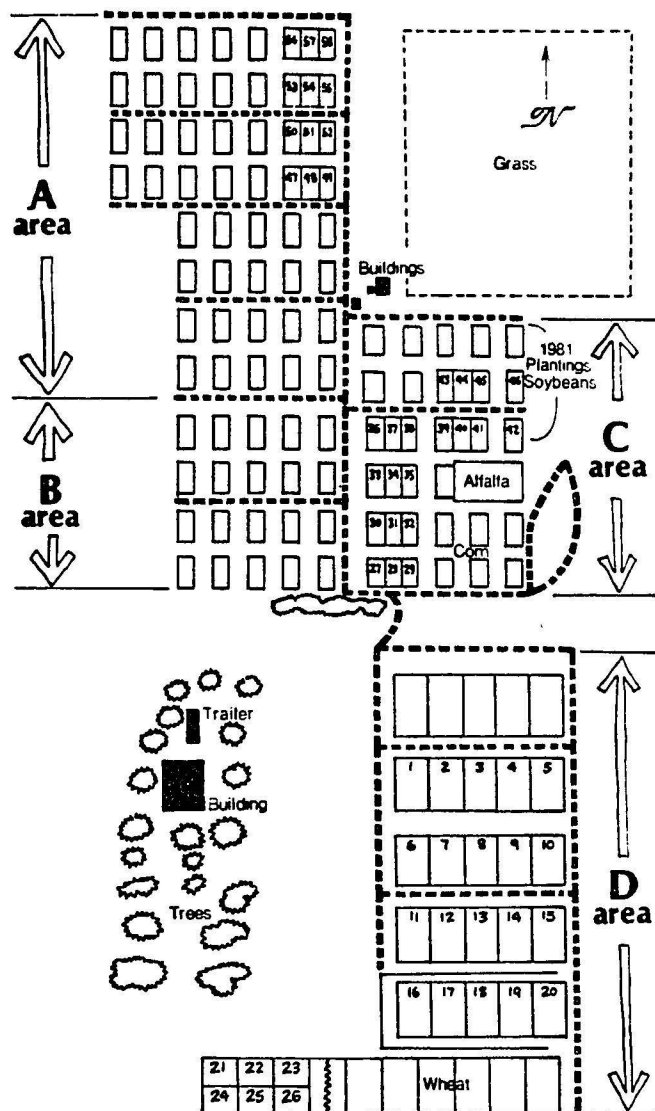
1983 - Oliver Bird analyzing the multi-spectral images that were taken on July 18, 1980 over the Sandhills Agricultural Laboratory



1985 - Romano Rao analyzing the multi-spectral images that were taken on July 15, 1980 over the Sandhills Agricultural Laboratory



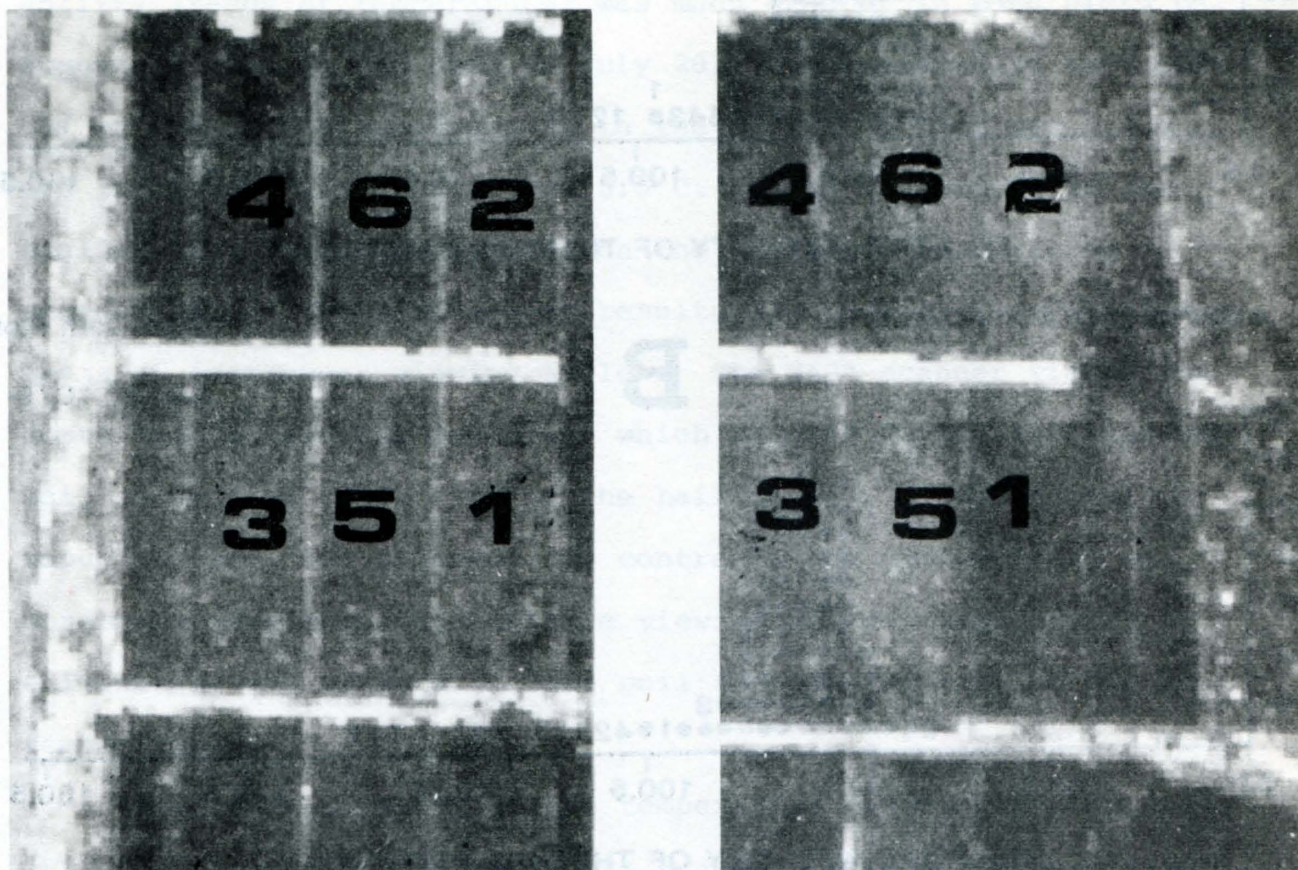
[illegible]



**University of Nebraska
Sandhills Ag. Lab. Solid Set Irrigation**

Solid set irrigation area of the Sandhills Agricultural Laboratory showing plot locations :

Latitude:41.626618 Longitude:-100.839648



JULY 20

AUGUST 30

Fig. 7. Thermal imagery (channel 11) for the Irrigation Scheduling plots (C area) on July 20 and August 30, 1979. The light colored lines running E-W are roadways between plots. Those running N-S are sprinkler lines between plots. Areas 1, 2, 3, 4, 5 refer to plots receiving different irrigation treatments (Chapter VII). The darker the color, the cooler the temperature.

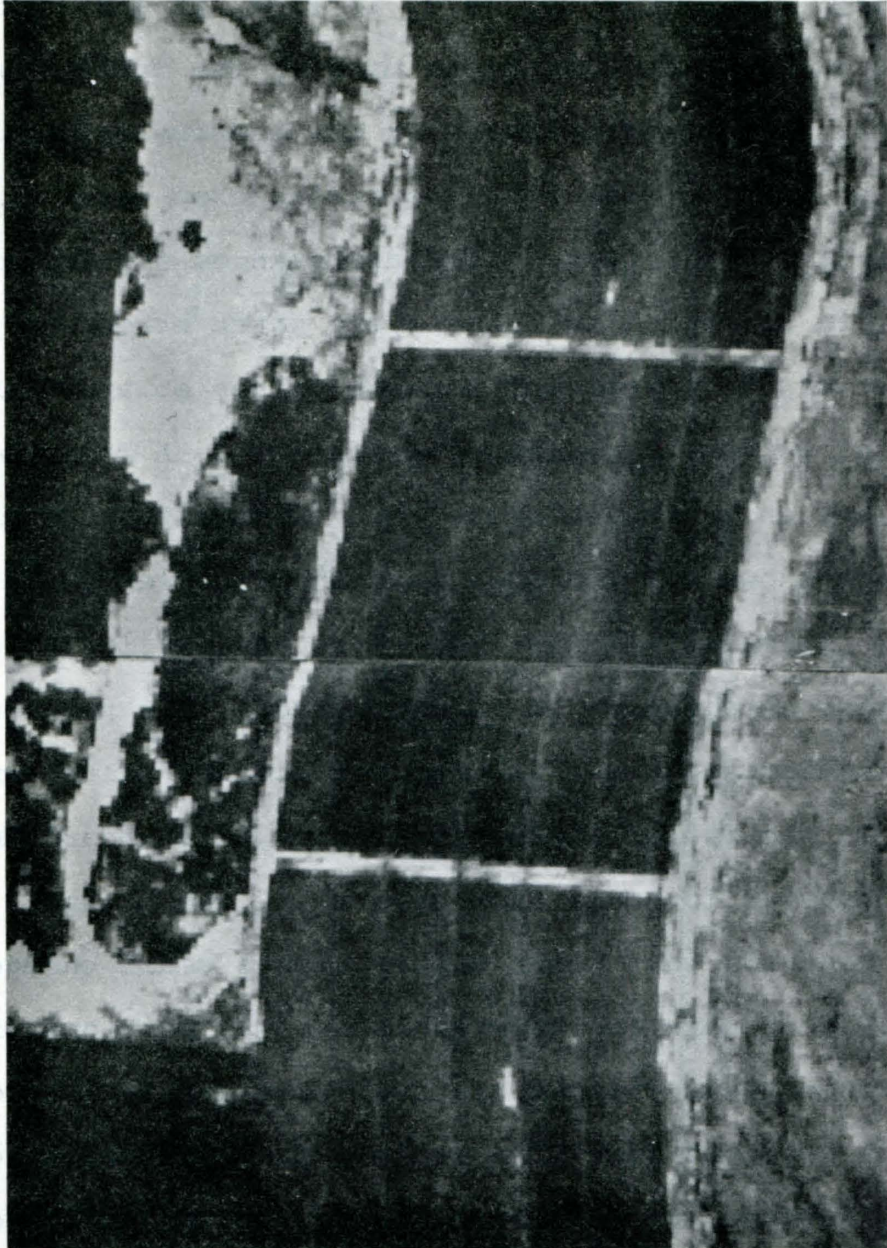


Fig. 11. Thermal imagery (Channel 11) of the water gradient treatments in area D on August 30, 1979. The two thin lines running N-S to the right and left of the center of the field are the irrigation sprinkler lines. The water gradients are applied on either side of these lines.

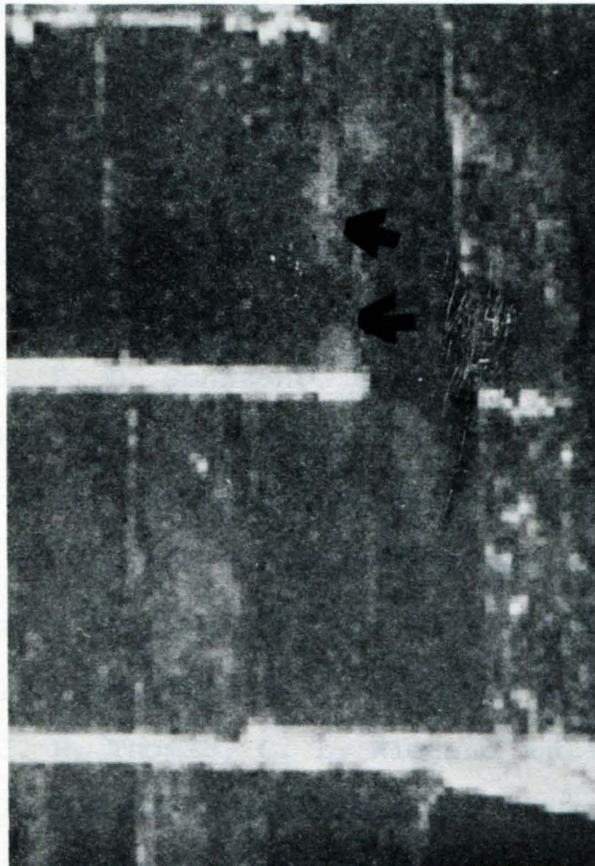
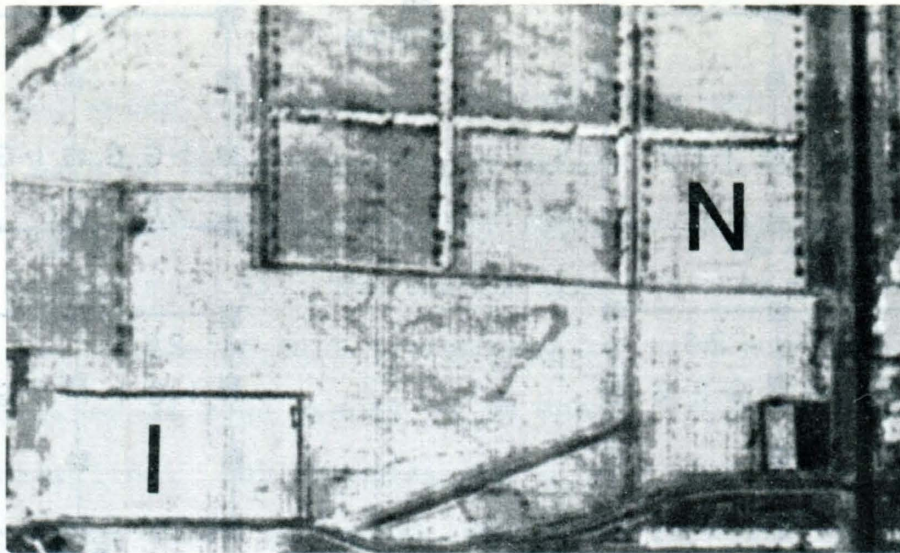
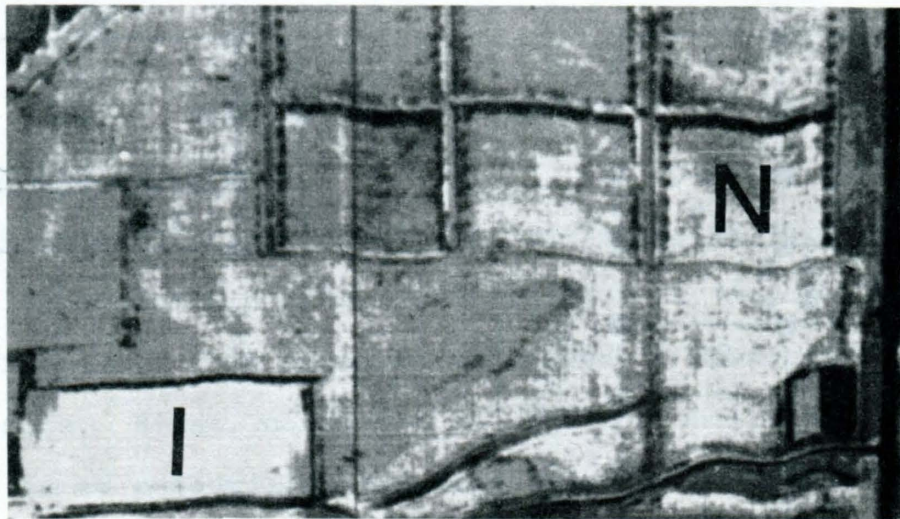


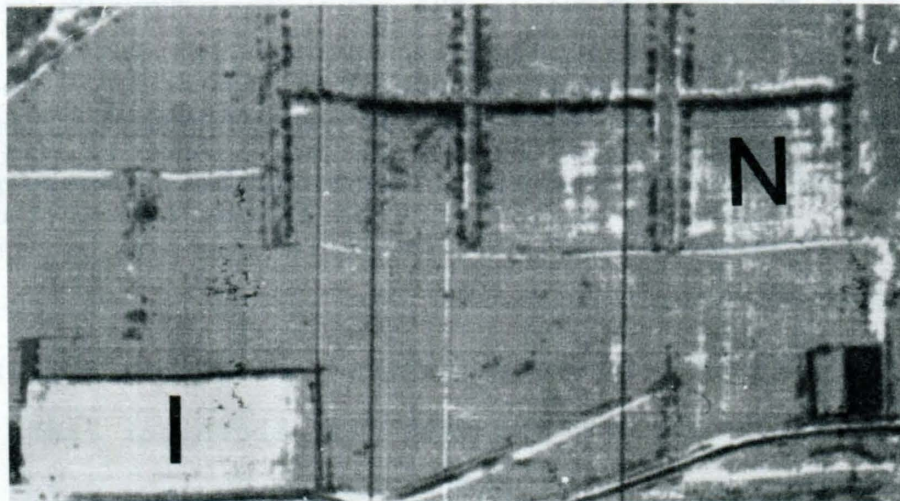
Fig. 14. Imagery from the temperature irrigation scheduled plots in C area. Data are from Channel 6 (0.62-0.66 μ m range) on August 30, 1979. The arrows show the problem area in the 3SMW plot (plot 2).



A

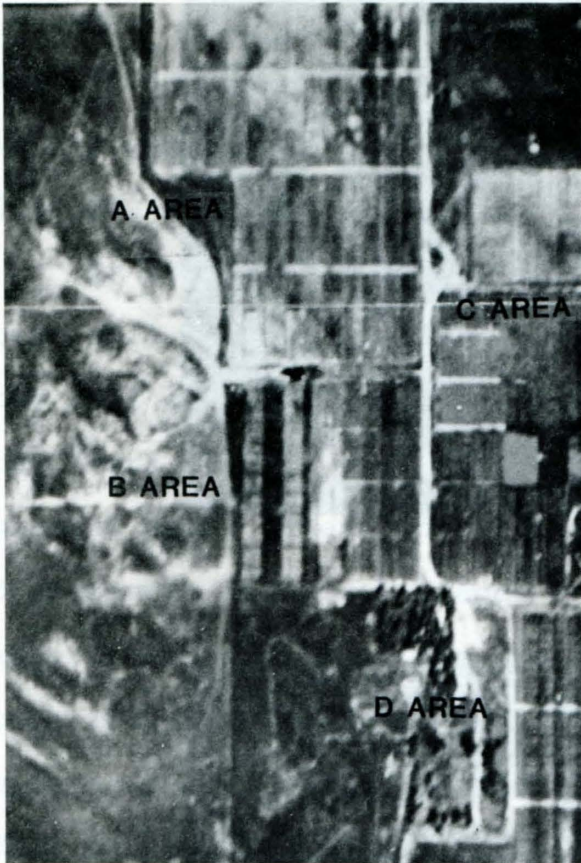


B

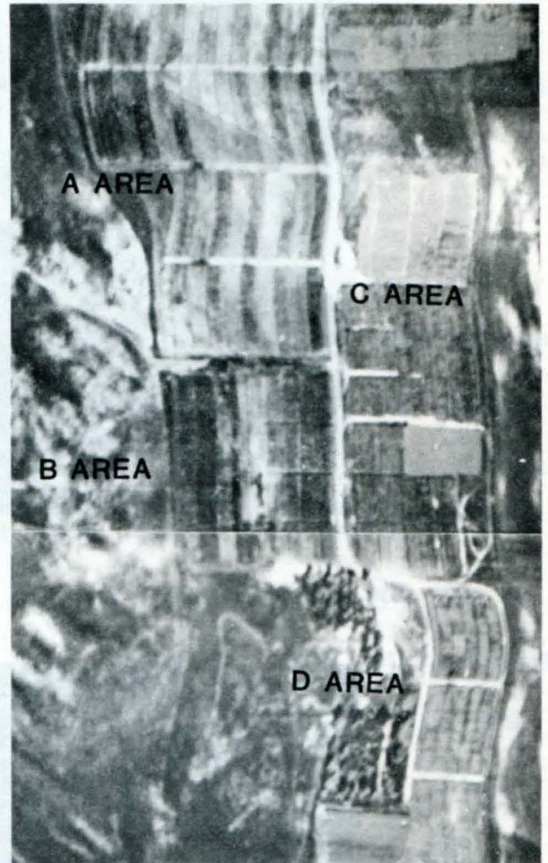


C

Fig. 6. Thermal imagery of irrigated and non-irrigated sorghum on August 26, 1974, at Mead, Nebraska. An irrigated plot is marked with an I and a non-irrigated plot with an N. The lighter the shade the cooler the temperature. A (1148 h), B (1613 h) and C (1817 h). All remaining areas were planted to non-irrigated sorghum. The lines forming distinctive tic-tac-toe pattern are tree shelter-belts.



JULY 20



AUGUST 30

Fig. 4. Three band color composite of the Sandhills Agricultural Laboratory on July 20 and August 30, 1979. Color assignments were: Blue - Channel 4; Green - Channel 6; Red - Channel 10. Due to the high cost of reproducing color photographs, the ones shown here are reproduced only in black and white. North is to the top of the page.

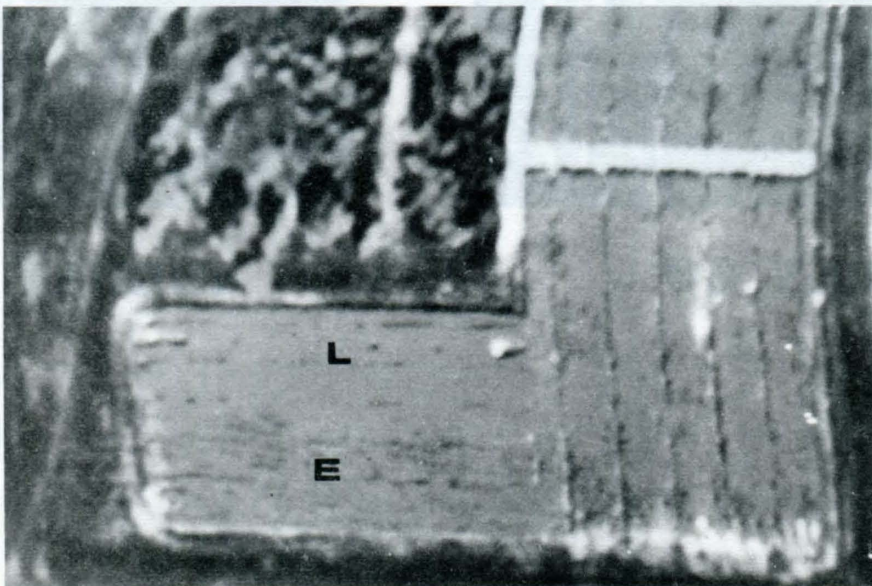
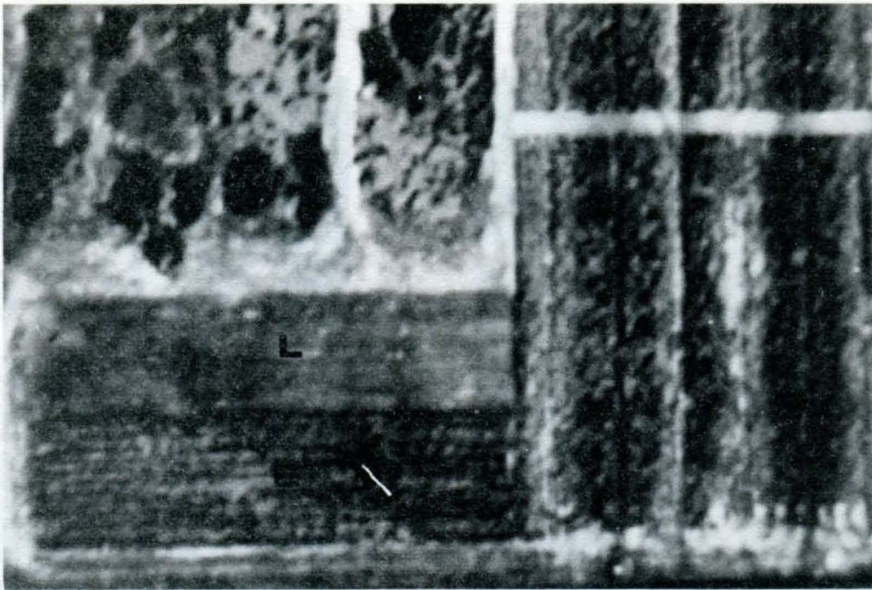


Fig. 5. Enlarged color composite of the south end of D area, showing the contrast between bare soil and a corn crop on July 20 (A) and August 30, (B) 1979. Color assignments were the same as in Fig. 4. Area L is late planted corn and area E is early planted corn.

APPENDIX IV

DISTINGUISHING CORN FROM ALFALFA
USING MULTISPECTRAL DATA

B. E. Gardner, B. L. Blad and B. Krans

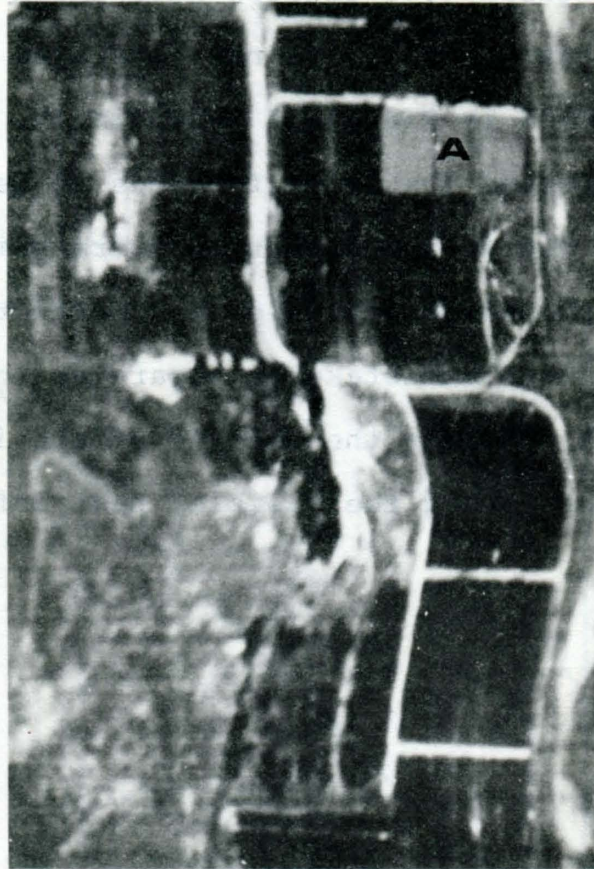


Fig. 1. Three channel color composite of the Sandhills Agricultural Laboratory for the August 30, 1979 data. Color assignments were Blue--Channel 11, Green--Channel 1, and Red--Channel 8. Alfalfa area is labeled A.

A thermal band image showing a grid of agricultural fields. The fields are represented by various colors: red, orange, yellow, green, and blue, indicating different temperatures. The image is grainy and has a high-contrast, almost abstract appearance. The text is overlaid on the image in a white, sans-serif font.

NITROGEN STUDY


SOYBEANS

WATER

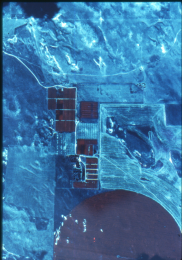
ALFALFA

10.4-12.5 UM
SANDHILLS LAB
JULY 15, 1980
(THERMAL BAND)

STRESS STUDY



0.76-0.90 UM
D AREA AND PIVOT
SANDHILLS LAB
JULY 15, 1980



NITROGEN STUDY

SOYBEANS

WATER

ALFALFA

BLUE-2.00-2.35 UM

GREEN-1.75-1.75 UM

RED-0.75-0.50 UM

INCHES 1.00

JULY 10, 1988

STRESS STUDY

IRRAWADDI LA. LAB. BY PAUL D. H.



CHANNEL 2 0.63-0.67 UM
D AREA AND PIVOT
SACCHILLI LAG
JULY 15, 1960

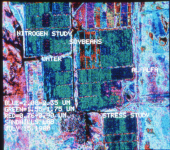


FIGURE 1. A LABEL BY FACTOR 11

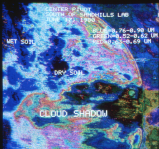
CENTER POINT
SOUTH OF SNEDECUMS LAB
JUNE 12, 1960

RED - 0.75-0.90 UM
GREEN - 0.52-0.62 UM
BLUE - 0.43-0.69 UM

WET SOIL

DRY SOIL

CLOUD SHADOW





CLOUD SHADOW

MOISTURE GRADIENT PLOTS
SANDHILLS LAB
JUNE 17, 1988
8.55-8.59 AM



NITROGEN STUDY

SANDHILLS

WATER

ALFALFA

1.55-1.75 UM
SANDHILLS LAB
JULY 15, 1988

STRESS STUDY



NORTH 8. AREA
SPENCER'S LAB
JUNE 17, 1968
8.52-8.68 AM

CLOUD SHROUD

HARVESTED ALFALFA



UNKNOWN PROBLEM

CLOUD SHADOW

MOISTURE GRADIENT PLOTS
SANDHILLS LAB
JUNE 17, 1988
9.10-1.30 AM



UNKNOWN PROBLEM

CLOUD SHADOW

MOISTURE GRADIENT PLOTS
SANDHILL CREEK
JUNE 17, 1988
9:55-1:25 PM

CENTER PILOT
SOUTH OF SANDHILLS LAB
JUNE 17, 1968

1.18-1.38 μM

WET SOIL

DRY SOIL

CLOUD SHADOW



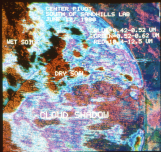
CENTER PILOT
SOUTH OF SPOONHILLS LAB
JUNE 22, 1999

WET 10.40-8.52 UM
DRY 8.52-8.62 UM
WET 11.4-12.5 UM

WET 507

DRY 504

CLOUD 50600



NITROGEN STUDY

CONCRETE

WATER

ALFALFA

200-200 LB
SANDHILLS LAB
JULY 13, 1985

STRESS STUDY



NITROGEN STUDY

SOYBEANS

BLUE=0.52-0.60 UM
GREEN=0.63-0.69 UM
RED=0.76-0.90 UM
SANDHILLS LAB
JULY 15, 1988

ALFALFA

STRESS STUDY

HITACHI 200

CHIRP

10000

ALFALFA

10.4-12.5 UN

SANDHILLS L&P

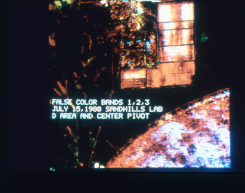
JULY 15, 1980 #24-25

(THERM. BOND)

STRIPS STUDY



10.4-12.5 μ m
D AREA AND PILOT
SNOWHILLS LAGOON
JULY 15, 1968



FALSE COLOR BANDS 1,2,3
JULY 15, 1988 SANDHILLS LAB
D AREA AND CENTER PIVOT



NORTH END OF D AREA
SANDHILLS LAGOON
JUNE 17, 1968

BLACK AND WHITE
AERIAL PHOTOGRAPH
OF SANDHILLS LAGOON

CLOUD SHADOW

HARVESTED ALFALFA

DATE AND LOCATION

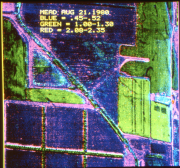


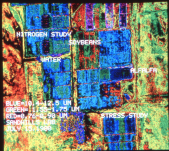
CLOUD SHADOW

NORTH A AREA
SANDHILLS LND
JUNE 17, 1968
BLUE= 2.68-2.33 UM
GREEN=18.4-12.5 UM
RED=1.55-1.75 UM

HARVESTED ALFALFA

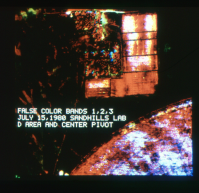
HEAD: AUG 21, 1968
BLUE = .45-.52
GREEN = 1.00-1.30
RED = 2.00-2.35







8.52-8.60 UM
D AREA AND PIUOT
SANDHILLS LAB
JULY 15, 1988

A false color satellite image showing a landscape. In the upper right, there is a large, rectangular building with a grid-like pattern of windows, appearing in shades of red and orange. To the left of the building is a dark, irregularly shaped area, possibly a forest or dense vegetation. In the lower right, a bright, diagonal line of light blue and white suggests a road or a body of water. The overall image has a grainy, high-contrast appearance typical of older satellite photography.

FALSE COLOR BANDS 1,2,3
JULY 15, 1980 SANDHILLS LAB
D AREA AND CENTER PIVOT



NITROGEN STUDY

SOYBEANS

WATER

ALFALFA

2.00-2.35 UM
SACHILL'S LAB
JULY 15, 1980

STRESS STUDY

CENTER PLOT
SOUTH OF SANDHILLS LWR
JUNE 17, 1988
10.4-12.5 cm

WET SOIL

DRY SOIL

CLAY SANDS



B. 76-8.50 UM
D AREA AND PIVOT
SANDHILLS LAB
JULY 15, 1960



NITROGEN STUDY

SOYBEANS

WATER

RAIPALFA

18.4-12.5 UM
SANDHILLS LAB
JULY 15, 1980
(THERMAL BAND)

STRESS STUDY

An aerial photograph of a desert landscape. In the center, there is a rectangular structure with a flat roof, possibly a building or a large container. To the left of this structure, there is a small, dark, irregularly shaped area. A winding road or path runs along the bottom right of the image. The terrain is arid and sandy, with some sparse vegetation visible in the background.

CHANNEL 1 8.52-8.62 UM
D AREA AND PIVOT
SANDHILLS LAB
JULY 15, 1988

An aerial photograph showing a coastal area. In the center, there is a building with a dark roof and a lighter-colored section. To the right of the building is a curved shoreline or road. The surrounding area is mostly light-colored, possibly sand or a field. The image is grainy and has a high-contrast, almost black-and-white appearance.

CHANNEL 2 8.63-8.67 UM
D AREA AND PIVOT
SANDHILLS LAB
JULY 15, 1968



CLOUD SHADOW

NORTH A AREA
SMITHILLS LAB
JUNE 17, 1988

BLUE= 2.55-3.35 μ m

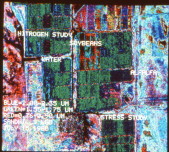
GREEN=10.4-12.5 μ m

RED=1.55-1.75 μ m

HARVESTED ALPALPA



BLUE=0.52-0.60 UM
GREEN=0.65-0.75UM
RED=0.76-0.90 UM
JULY 15, 1980
SPRINGHILLS LMO



ENCLOSURE LABEL ON PAPER 3



CLOUD SHADOW

NORTH A AREA

SANDHILLS LAB

JUNE 17, 1980

BLUE= 2.00-2.35 UM

GREEN=10.4-12.5 UM

RED=1.55-1.75 UM

HARVESTED ALFALFA



2.85-2.35 UM
6. MOIR AND PILOT
SANDHILLS LAG
JULY 15, 1998



CHANNEL 1 8.52-8.62 UM
D AREA AND PIVOT
SANDHILLS LAB
JULY 15, 1988



CHANNEL 2 8.63-8.67 UM
O AREA AND PIVOT
SANDHILLS LND
JULY 15, 1980

